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OM protein - protein search, using sw model

Run on: May 8, 2002, 11:06:25 ; Search time 14.94 Seconds  
(without alignments)  
801.322 Million cell updates/sec

Title: US-09-911-513-2

Perfect score: 2758

Sequence: 1 MKRDHHHHQDKKTMNNEE.....MLGWHTRPLIATSAWKLSTN 532

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 212252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 212252

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*

1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*

2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*

3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*

4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*

5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*

6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2758	100.0	532	4	US-09-117-853-2
2	1338.5	48.5	282	4	US-09-117-853-8
3	1304.5	47.3	259	4	US-09-117-853-6
4	1108.5	40.2	221	4	US-09-117-853-4
5	713.5	25.9	166	4	US-09-117-853-10
6	109.5	4.0	664	1	US-08-421-661-6
7	104	3.8	2293	4	US-09-368-590-2
8	101.5	3.7	924	3	US-08-619-812-8
9	101.5	3.7	926	1	US-07-908-253-2
10	101.5	3.7	926	1	US-08-455-970A-2
11	101.5	3.7	926	2	US-08-387-156-6
12	101.5	3.7	926	2	US-08-694-865-6
13	101.5	3.7	926	2	US-08-878-748-6
14	101.5	3.7	926	2	US-08-535-837-2
15	101.5	3.7	926	3	US-09-124-491-6
16	101.5	3.7	926	6	5476657-3
17	101.5	3.7	936	1	US-08-455-970A-12
18	101.5	3.7	943	1	US-08-455-970A-10
19	101.5	3.7	951	1	US-08-455-970A-14
20	101.5	3.7	977	1	US-08-387-156-8
21	101.5	3.7	977	2	US-08-694-865-8
22	101.5	3.7	977	2	US-08-878-748-8
23	101.5	3.7	977	3	US-09-124-491-8
24	101.5	3.7	1069	1	US-07-777-715-9
25	101.5	3.7	1069	1	US-08-170-126-4
26	101.5	3.7	1069	3	US-08-954-418-4
27	101.5	3.7	1098	1	US-07-777-715-7

28	101.5	3.7	1098	1	US-08-170-126-2	Sequence 2, Appli
29	101.5	3.7	1098	3	US-08-954-418-2	Sequence 2, Appli
30	94.5	3.4	5087	4	US-09-144-085-1	Sequence 1, Appli
31	93.5	3.4	369	1	US-08-700-359-21	Sequence 21, Appli
32	92.5	3.4	820	2	US-08-380-182-23	Sequence 23, Appli
33	92	3.3	497	4	US-09-377-557-10	Sequence 10, Appli
34	91.5	3.3	626	4	US-09-155-770-7	Sequence 7, Appli
35	91.5	3.3	3665	2	US-08-222-617A-13	Sequence 13, Appli
36	91.5	3.3	3712	2	US-08-222-617A-25	Sequence 25, Appli
37	91	3.3	370	3	US-09-028-934-34	Sequence 34, Appli
38	91	3.3	484	1	US-08-030-096-8	Sequence 8, Appli
39	90.5	3.3	870	2	US-08-732-192A-2	Sequence 2, Appli
40	90.5	3.3	3712	2	US-08-222-617A-4	Sequence 4, Appli
41	90	3.3	673	4	US-09-078-347A-2	Sequence 2, Appli
42	90	3.3	916	1	US-08-188-228-48	Sequence 48, Appli
43	90	3.3	916	1	US-08-332-643-42	Sequence 42, Appli
44	90	3.3	916	1	US-08-332-638-48	Sequence 48, Appli
45	89.5	3.2	431	4	US-09-376-689-4	Sequence 4, Appli

#### ALIGNMENTS

##### RESULT 1

US-09-117-853-2

; Sequence 2, Application US/09117853

; Patent No. 6307126

; GENERAL INFORMATION:

; APPLICANT: Harberd, Nicholas P

; APPLICANT: Peng, Jinrong

; APPLICANT: Carol, Pierre

; APPLICANT: Richards, Donald E

; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana

; FILE REFERENCE: 620-45

; CURRENT APPLICATION NUMBER: US/09/117,853

; CURRENT FILING DATE: 1998-08-12

; EARLIER APPLICATION NUMBER: PCT/GB97/00390

; EARLIER FILING DATE: 1997-02-12

; EARLIER APPLICATION NUMBER: GB 9602796.6

; EARLIER FILING DATE: 1996-02-12

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 2

; LENGTH: 532

; TYPE: PRT

; ORGANISM: Arabidopsis thaliana

US-09-117-853-2

Query Match 100.0%; Score 2758; DB 4; Length 532;  
Best Local Similarity 100.0%; Pred. No. 7.8e-257;  
Matches 532; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MKRDHHHHQDKKTMNNEEDDNGMDLAVLGKYSRSEMADVAOKLEQLEVMMSNVQ	60
Db	1	MKRDHHHHQDKKTMNNEEDDNGMDLAVLGKYSRSEMADVAOKLEQLEVMMSNVQ	60
Qy	61	EDDLSQLATETVHYNPALTYLWLDLNPSSNAYDKAIPGDAILNOFAIDSASS	120
Db	61	EDDLSQLATETVHYNPALTYLWLDLNPSSNAYDKAIPGDAILNOFAIDSASS	120
Qy	121	SNQGGGDTYTTNKRKCSNGVVETTATAESTRHVVLVDSQENGVRVHALLACAEAVQ	180
Db	121	SNQGGGDTYTTNKRKCSNGVVETTATAESTRHVVLVDSQENGVRVHALLACAEAVQ	180
Qy	181	KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPDTHSLSDTLQW	240
Db	181	KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAELARRIYRLSPSPDTHSLSDTLQW	240
Qy	241	HFYETCPYLKFAHTTANQAILAEAFQGGKRVHVDFDSMSQGLQWPAALMPGPPVF	300
Db	241	HFYETCPYLKFAHTTANQAILAEAFQGGKRVHVDFDSMSQGLQWPAALMPGPPVF	300

Qy 301 RLTGIGPAPDNFDYLVHVGCKLAHLAIAIHVEFEYRGFVANTLADLADSMLELRPSIE 360  
Db 301 RLTGIGPAPDNFDYLVHVGCKLAHLAIAIHVEFEYRGFVANTLADLADSMLELRPSIE 360  
Qy 361 SVANVSFELHKLGRPAIDKVLGVNQIKPEIFTVVVEQESNHSPIFLDRFTESLHY 420  
Db 361 SVANVSFELHKLGRPAIDKVLGVNQIKPEIFTVVVEQESNHSPIFLDRFTESLHY 420  
Qy 421 STLFDSLEGVSGODKVMSEYVLGKQICNVVACDGPDRVERHETLSQWRNRFSGAGAAA 480  
Db 421 STLFDSLEGVSGODKVMSEYVLGKQICNVVACDGPDRVERHETLSQWRNRFSGAGAAA 480  
Qy 481 HIGSNAFQAQSMIALFNGSGYRVEESDGCMLGWHTRPLIATSAMKLSN 532  
Db 481 HIGSNAFQAQSMIALFNGSGYRVEESDGCMLGWHTRPLIATSAMKLSN 532

RESULT 2  
US-09-117-853-8  
; Sequence 8, Application US/09117853  
; Patent No. 6307126  
; GENERAL INFORMATION:  
; APPLICANT: Harberd, Nicholas P  
; APPLICANT: Peng, Jinrong  
; APPLICANT: Carol, Pierre  
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana  
; FILE REFERENCE: 620-45  
; CURRENT APPLICATION NUMBER: US/09/117,853  
; EARLIER FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: PCT/GB97/00390  
; EARLIER FILING DATE: 1997-02-12  
; EARLIER APPLICATION NUMBER: GB 9602796.6  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 282  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-09-117-853-8

Query Match 48.5%; Score 1338.5; DB 4; Length 282;  
Best Local Similarity 94.0%; Pred. No. 1.1e-120;  
Matches 264; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKKTMNNEEDDGNMDELLAVLGKVRSSSEMADVAOKLEQLEVMSNVQ 60  
Db 1 MKRDHHHHQDKKTMNNEEDDGNM-----DVAOKLEQLEVMSNVQ 43  
Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120  
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103  
Qy 121 SNQGGGDTYTNKRLKCSNGVETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 180  
Db 104 SNQGGGDTYTNKRLKCSNGVETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 163  
Qy 241 HFYETCPYLKFAHTANQAILEAFQGKKRVHVIDFSMSQGL 281  
Db 224 HFYETCPYLKFAHTANQAILEAFQGKKRVHVIDFSMSQGL 264

RESULT 3  
US-09-117-853-6  
; Sequence 6, Application US/09117853  
; Patent No. 6307126  
; GENERAL INFORMATION:

; APPLICANT: Harberd, Nicholas P  
; APPLICANT: Peng, Jinrong  
; APPLICANT: Carol, Pierre  
; APPLICANT: Richards, Donald E  
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana  
; FILE REFERENCE: 620-45  
; CURRENT APPLICATION NUMBER: US/09/117,853  
; CURRENT FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: PCT/GB97/00390  
; EARLIER FILING DATE: 1997-02-12  
; EARLIER APPLICATION NUMBER: GB 9602796.6  
; EARLIER FILING DATE: 1996-02-12  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 259  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-09-117-853-6

Query Match 47.3%; Score 1304.5; DB 4; Length 259;  
Best Local Similarity 93.8%; Pred. No. 1.8e-117;  
Matches 257; Conservative 0; Mismatches 0; Indels 17; Gaps 1;

Qy 1 MKRDHHHHQDKKTMNNEEDDGNMDELLAVLGKVRSSSEMADVAOKLEQLEVMSNVQ 60  
Db 1 MKRDHHHHQDKKTMNNEEDDGNM-----DVAOKLEQLEVMSNVQ 43  
Qy 61 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 120  
Db 44 EDDLSQLATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSASS 103  
Qy 121 SNQGGGDTYTNKRLKCSNGVETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 180  
Db 104 SNQGGGDTYTNKRLKCSNGVETTTATAESTRHVVLVDSQENGVRVLVHALLACAEAVQ 163  
Qy 181 KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAEALARRIYRLSPSPIDHSLSDTLQ 240  
Db 164 KENLTVAEALVKQIGFLAVSQIGAMRKVATYFAEALARRIYRLSPSPIDHSLSDTLQ 223  
Qy 241 HFYETCPYLKFAHTANQAILEAFQGKKRVHVID 274  
Db 224 HFYETCPYLKFAHTANQAILEAFQGKKRVHVID 257

RESULT 4  
US-09-117-853-4  
; Sequence 4, Application US/09117853  
; Patent No. 6307126  
; GENERAL INFORMATION:  
; APPLICANT: Harberd, Nicholas P  
; APPLICANT: Peng, Jinrong  
; APPLICANT: Carol, Pierre  
; APPLICANT: Richards, Donald E  
; TITLE OF INVENTION: Nucleic acid encoding GAI gene of Arabidopsis thaliana  
; FILE REFERENCE: 620-45  
; CURRENT APPLICATION NUMBER: US/09/117,853  
; CURRENT FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: PCT/GB97/00390  
; EARLIER FILING DATE: 1997-02-12  
; EARLIER APPLICATION NUMBER: GB 9602796.6  
; EARLIER FILING DATE: 1996-02-12  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 221  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-09-117-853-4

Query Match 40.2%; Score 1108.5; DB 4; Length 221;



Qy 472 FG 473  
Db 651 FG 652

## RESULT 7

US-09-368-590-2  
; Sequence 2, Application US/09368590  
; Patent No. 6187563  
; GENERAL INFORMATION:  
; APPLICANT: Solimena, Michele  
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR  
; TITLE OF INVENTION: AUTOMATIGENS OF AUTOIMMUNE DISEASES  
; FILE REFERENCE: 101918-200 (OCR-941)  
; CURRENT APPLICATION NUMBER: US/09/368,590  
; CURRENT FILING DATE: 1999-08-04  
; EARLIER APPLICATION NUMBER: 60/095,657  
; EARLIER FILING DATE: 1998-08-07  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 2293  
; TYPE: PRT  
; ORGANISM: Human  
US-09-368-590-2

Query Match 3.8%; Score 104; DB 4; Length 2293;  
Best Local Similarity 19.9%; Pred. No. 2.1;  
Matches 105; Conservative 83; Mismatches 209; Indels 130; Gaps 27;  
Qy 12 KKTMMNEEDGNG--MDLLAVLG--YKVRSEMDVADQKLEQVMSNVQE----- 61  
Db 1254 KKNGLREIQAHQPRLEEVLERAGALASLRSPAEAAVRRLGLEQLQSAWAGLREAAERQ 1313  
Qy 62 ---DDLQATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAIDSA 118  
Db 1314 QVLDAAFOV--EQYFDVAEYEWL-----GEQELLMSEDKG 1349  
Qy 119 S---SSNOGGGGDYTTNKRKLCNSGVVETTTATAEST-----RHVVL---VDSQENGV- 166  
Db 1350 KVRPSGCGPGGAGAGGRRCLIVGAL--CPQDEQSTQLLLKKHLQLEQGVENEYESIA 1407  
Qy 167 ---RLVHALLACAEAVQKENTVAEALVKQIGFLAVSQIGAMKVA---TYFAEALARRI 220  
Db 1408 QLSROCRALLEMGHP--DSEQISRSQSDVRL--YVALKELGEERVALEQQYW-----L 1458  
Qy 221 YRLSPSQSPIDHSLSDTLQMHFYETCPYL--KFAHFTANQALAEAFQKKRVHVIDFSMS 278  
Db 1459 YQLSRQVSELEHWIA---EKEVVAGSPELGODFEHVSVLQ---EKFS-----EFASE 1504  
Qy 279 QGLQWALMOALALRPGGPPVRLTGTPPADNFDYLHEVGCKLAHLAEIAHVEFEYRG 338  
Db 1505 TGMAGRERLAUV-----NQMVDELIECG-----HTAAATMAEWK--- 1538  
Qy 339 FVANTLADLADSMLELRPSETESVAVNSVPELHKLGRPGAIDKVLGVVQNIKPEITTV 398  
Db 1539 ---DGLNEAWAELLELMGTTRAQLLAAR--ELHKFFSDARELQOQIEKRRRLPRLTPP 1593  
Qy 399 EOESNNHSPFLDRFTESL-HYYSTFLDSLEGVPSGQKVMSEYVLGKQICNVVACDGP 457  
Db 1594 EPRPSASS---MQTLRAFEHDLQLLYSQVRQLOEGRAQLRT-VYAGEHAETAS----- 1644  
Qy 458 RVERHETLSOWNRFGSAGFAAAHIGSNA-----FKQASMLLALFNG 499  
Db 1645 --REQEVLQGWKELLSACEDARLHVSTADALRPHSQRDLLSMDG 1689

## RESULT 8

US-08-619-812-8  
; Sequence 8, Application US/08619812  
; Patent No. 6100066  
; GENERAL INFORMATION:

; APPLICANT: POTTER, ANDREW A.  
; APPLICANT: THEISEN, MICHAEL  
; APPLICANT: HARLAND, RICHARD J.  
; APPLICANT: RIOUX, CLEMENT R.  
; TITLE OF INVENTION: VACCINES FOR HAEMOPHILUS SOMNUS  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: REED & ROBINS  
; STREET: 635 BRYANT STREET  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: UNITED STATES OF AMERICA  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/619,812  
; FILING DATE: 15-MAR-1996  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/038,719  
; FILING DATE: 29-MAR-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ROBINS, ROBERTA L.  
; REGISTRATION NUMBER: 33,208  
; REFERENCE/DOCKET NUMBER: 9000-0019.20  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 617-8999  
; TELEFAX: (415) 327-3231  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 924 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-619-812-8

Query Match 3.7%; Score 101.5; DB 3; Length 924;  
Best Local Similarity 18.8%; Pred. No. 0.84;  
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;  
Qy 19 EEDGNGMDLLAV---LGKYRSEMDVADQK-----LEQLEVMMSNVQEDD 63  
Db 28 DTEQNGQLDLVRAAEELGIEVQREERNNTATAQTSGLTQTGTLGTERGIVLSAPQIDK 87  
Qy 64 LSQI-----ATETVHYNPAELYTWLDSMLTDLNPPSSNAEYDLKAIPGDAILNQFAI 115  
Db 88 LLOKTRAGQALGSAESTVQNAKAKTVLSGTSILGSLVLAGMDLD--EALQNN--NQHAL 144  
Qy 116 DSASSSQGGGGDYTTNKRKLCNSGVVETTT-----A 148  
Db 145 AKAG-----LELTNSLIENIANSVKTLDFEGEIQSGSKLQNIKGLGT 188  
Qy 149 TAESTRHVVLVDSQENGVRVLRVHALLACAEAVQKENTVAE---ALVKQIGF---LAVSQI 202  
Db 189 LGDKLKNIGGLDAGLDVDSGLSGATAA---LVLDKNASTAKKVGAGFELANQV 244  
Qy 203 GAMRK-VATYFAEALARRIYRLSPSQSPIDHSLSDTLQMHFYETCPYL-----KPAHFT 255  
Db 245 GNITKAVSSYI---LAORVAAAGLSSTGTPVAALITASTVSL---AISPLAFAGIADKFNHAK 298  
Qy 256 ANQAILEAF-----QGKKRVHVIDFSMSQGLQWALMOALALRPGG----- 296  
Db 299 SLESYAEERFKLGDGDNLLAEYQRTGTIDASVT-----AINTALAAAGGVSAAAG 352  
Qy 297 -----PPVFRLTGIGPPAPDNFDYLHEVGCKLAHLAEIAH---VEFE-----YRGF 339  
Db 353 SVTASPIALLVSGITGVISTILQYSKQ--AMFEHVANKIHKVWEKNNHKNFYENGY 410



Db	464	-----SKAYVDAFEQGHKADKLVLQSDSANGIIDVNSGKAKTOHILFR	509
Ov	444	GKOICNVACGPDPRVERHET-----LSOWRNRFGSA-----GF	477

Db 510 -----TPLLTPGTEHREVRQTKYIYITKLNINRVDSWKITDGAASSTFDLTNNVVORIGI 564  
Qy 478 AAAHIGS-NAFKQASMLLAL-----FNGGEGY-RVEESDG 510  
Db 565 ELDNAGNTKTKETKIIAKLGEEDDNVFGSGTTTIDGEGYDRVHYSRG 614

RESULT 12  
US-08-694-865-6  
; Sequence 6, Application US/08694865  
; Patent No. 5837268  
; GENERAL INFORMATION:  
; APPLICANT: POTTER, ANDREW A.  
; APPLICANT: MANN, JOHN G.  
; TITLE OF INVENTION: GURH-LEUKOTOXIN CHIMERAS  
; NUMBER OF SEQUENCES: 34  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: REED & ROBINS LLP  
; STREET: 285 HAMILTON AVENUE, SUITE 200  
; CITY: PALO ALTO  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/694,865  
; FILING DATE: 09-AUG-1996  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MCCracken, THOMAS P.  
; REGISTRATION NUMBER: 38,548  
; REFERENCE/DOCKET NUMBER: 9001-0016.22  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415)327-3400  
; TELEFAX: (415)327-3231  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 926 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-694-865-6

Query Match 3.7%; Score 101.5; DB 2; Length 926;  
Best Local Similarity 18.8%; Pred. No. 0.85;  
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

Qy 19 BEDDGNMGDELLAV---LGKVRSEMDVAQK-----LEOLEVWMSNVQEDD 63  
Db 28 DTEGNGLDLVKAAEEIGVQREERNNIATQTSLTGTAIGLTERGIVLSAPQDK 87  
Qy 64 LSQLE-----ATETVHNPAAELTYLWLDMLTDLNPPSSNAEYDLKAIPIGDAILNQFAI 115  
Db 88 LLQRTKAGQALGSAESIYONAKAKTVLSGIQSLGVLGMDLDL-EALQNN--NQHAL 144  
Qy 116 DSASSNNGGGDYYTWNKRLKCSNGVVETTT-----LELTNSLTENTANSVKTLDFERGEQISQFGSKLQNIKGLGT 188  
Db 145 AKAG-----LELTNSLTENTANSVKTLDFERGEQISQFGSKLQNIKGLGT 188  
Qy 149 TAESTRHHVLDVSOENGVRVLYHALLACAEVQKENLTVAE---ALVKGIGF---LAVSQI 202  
Db 199 LGDKLNIGGLDKAGGLGDLVTSGLLSGATAA-----LVLDKNASTAKKVGAGFELANQVV 244  
Qy 203 GAMRK-VATYFAEALARRIYRLSPSPIDHSLSDTLQMHFETCPYL-----KFAHFT 255  
Db 245 GNIYKAVSSYI---LAQRVAGLSTGTPVAALIASTVSL---AISPLAFAGIADKFNHAK 298

Qy 256 ANQATLEAF-----OGKKRVHVIDFSMSQLOWPALMOALALRPGG----- 296  
Db 299 SLESAERFKKLGVDGNLLAEYQRTGTIDASVT-----AINTALAAIAGGVSAAG 352  
Qy 297 -----PPVRLTGTGTPAPDNFDYLHEVGCKLAHLAEAIH---VEFE-----YRGF 339  
Db 353 SVIASPIALLVSGITGVISTILQYSKQ--AMFEHVANKIHKNKIVEKNNHGKNYFENG 410  
Qy 340 VANTLADLDASM---LELRPSIESVAVNSVFE-----LHKLGRPGCAIDKVLGWNQI 390  
Db 411 DARYLANLDQNMKFLNLN-KELQAEVIAITQQOWDNNIGDLAGISRLGEKVL----- 463  
Qy 391 KPEFTVVVEQESNHNPIFLDRFTESLHYS---TLFDSLEGV-----PSGQDKVMSEYVL 443  
Db 464 -----SGKAYVDAFEGKHKADKLVQDSANGIIDVSNsGRAKTQHILFR 509  
Qy 444 GKQICNVVACDGPDRVERHET-----LSQWRNREGSA-----GF 477  
Db 510 -----TPLLTPGTEHREVRQTKYIYITKLNINRVDSWKITDGAASSTFDLTNNVVORIGI 564  
Qy 478 AAAHIGS-NAFKQASMLLAL-----FNGGEGY-RVEESDG 510  
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RESULT 13  
US-08-878-748-6  
; Sequence 6, Application US/08878748  
; Patent No. 5969126  
; GENERAL INFORMATION:  
; APPLICANT: POTTER, ANDREW A.  
; APPLICANT: REDMOND, MARK J.  
; APPLICANT: HUGHES, HUW P.A.  
; TITLE OF INVENTION: GURH-LEUKOTOXIN CHIMERAS  
; NUMBER OF SEQUENCES: 28  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: REED & ROBINS  
; STREET: 635 BRYANT STREET  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: UNITED STATES OF AMERICA  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/878,748  
; FILING DATE: 19-JUN-1997  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/387,156  
; FILING DATE: 10-FEB-1995  
; APPLICATION NUMBER: US 07/960,932  
; FILING DATE: 14-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/779,171  
; FILING DATE: 16-OCT-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ROBINS, ROBERTA L.  
; REGISTRATION NUMBER: 33,208  
; REFERENCE/DOCKET NUMBER: 9001-0016.21  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 617-8999  
; TELEFAX: (415) 327-3231  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 926 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-878-748-6





Search completed: May 8, 2002, 11:08:17  
Job time: 112 sec

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Query Match      3.7%; Score 101.5; DB 3; Length 926;
Best Local Similarity 18.8%; Pred. No. 0.85;
Matches 122; Conservative 100; Mismatches 207; Indels 221; Gaps 32;

  QY 19 EEDDGNMGDELLAV--LGYKVRSSSEMAADVAQK-----LEQLEVMMSNVQEDD 63
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  Db 28 DTSGNGQLQDLVKAEEELGEVQREERNNTATQTSLGTTQTATGLTERGIVLSAPQIDK 87
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  QY 64 LSOL-----ATETVHYNPAELYTLWDSMLTDLPSPSSNAEYDLKAIPGDATLNGFAI 115
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      : : : : : : : : : : : : : : : : : : : : : : : :
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      : : : : : : : : : : : : : : : : : : : : : : : :
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      : : : : : : : : : : : : : : : : : : : : : : : :
  QY 256 ANQAILEAF-----CGKKRVHVDFSMSSOGLWPALMOALALRPGG----- 296
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